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	Application No.	Applicant(s)
Notice of Allowability	09/840,716	SNIEGOWSKI ET AL.
	Examiner	Art Unit
	Lan Vinh	1765
The MAILING DATE of this communication a All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1	S IS (OR REMAINS) CLOSED I -85) or other appropriate comm I T RIGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. $igotimes$ This communication is responsive to <u>Amendment and</u>	remarks filed on 10/10/2003.	
2. 🔀 The allowed claim(s) is/are <u>1-76</u> .		
3. $igotimes$ The drawings filed on <u>23 April 2001</u> are accepted by the	ne Examiner	
4. Acknowledgment is made of a claim for foreign priori a) All b) Some* c) None of the: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorit International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DANOT NOT BE THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be SUBFORMAL PATENT APPLICATION (PTO-152) which 6. CORRECTED DRAWINGS (as "replacement sheets") (a) including changes required by the Notice of Drafts 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Exam Paper No./Mail Date Identifying indicia such as the application number (see 37 Ceach sheet. Replacement sheet(s) should be labeled as such attached Examiner's comment regarding REQUIREM	have been received. have been received in Application of this communication to fill ONMENT of this application. Submitted. Note the attached Examples reason(s) why the oath of the submitted. Sperson's Patent Drawing Review. Since 's Amendment / Comment of the comment of the the submitted. See T.84(c)) should be written on the in the header according to 37 Comment of the posit of BIOLOGICAL MATERIAL ACCORDANCE.	ion Noed in this national stage application from the le a reply complying with the requirements KAMINER'S AMENDMENT or NOTICE OF or declaration is deficient. ew (PTO-948) attached or in the Office action of the drawings in the front (not the back) of CFR 1.121(d). TERIAL must be submitted. Note the
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-9) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO-1449 or PTO-14	948) 6. ☐ Interview Paper No /SB/08), 7. ☐ Examiner	Informal Patent Application (PTO-152) Summary (PTO-413), o./Mail Date 's Amendment/Comment 's Statement of Reasons for Allowance Lan Vinh

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 09/840,716

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Allowable Subject Matter

1. Claims 1-76 allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 39, 58, the cited prior art of record fails to disclose or suggest a method for making a surface micromachined microstructure comprises the step of forming a first structural layer over a first sacrificial layer and after a step of forming the first sacrificial layer, wherein the first structural layer extends in a lateral dimension and comprises a first perimeter that defines a lateral extent of the first structural layer, wherein a plurality of conduits extend in said lateral dimension underneath said first structural layer such that said first structural layer overlies said plurality of conduits, wherein at least one end of at least one of said plurality of conduits is at a location in said lateral dimension that at least generally corresponds with a location in said lateral dimension of a corresponding portion of said first parameter. In the contrary, the closest cited prior art of Barron et al (US 5,919,548) discloses a method for micromachining a MEMS device comprises the step of forming a first structural layer 44 over a first sacrificial layer 40 and after a step of forming the first sacrificial layer, wherein the first structural layer extends in a lateral dimension and comprises a first perimeter that defines a lateral extent of the first structural layer, wherein a plurality of etch release channel 52/conduit that does not extend in said lateral dimension on said first structural layer and said plurality of etch release channel/conduits 52 overlies the first structural layer 44 (fig. 3r). Regarding claim 63, the cited prior art of record fails to disclose or suggest a method for making a surface micromachined microstructure comprises the

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step of removing a first sacrificial layer, wherein said removing step comprises using a first etchant to define at least one etch release conduit that is hollow, embedded, has a closed perimeter that is defined at least in part by said first sacrificial layer, and extend in a lateral dimension, and thereafter using a second etchant that is different from said first etchant to remove said first sacrificial layer by allowing said second etchant to flow within said at least one etch release conduit, wherein said at least one etch release conduit extends in said lateral dimension underneath a first structural layer such that said first structural layer overlies said at least one etch release conduit of said first parameter. In the contrary, the closest cited prior art of Barron et al (US 5,919,548) discloses a method for micromachining microstructure comprises the step of removing a first sacrificial layer 40 by flowing an etchant through one etch release channel 52/ conduit, wherein said at least one etch release conduit does not extends in a lateral dimension on said first structural layer and the etch release channel/conduit 52 overlies the first structural layer 44 (fig. 3r). The reasons for allowance of claims 67, 68, 74 have been stated in the previous office action (paper no. 5), see first paragraph on page 21 of the remarks.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lan Vinh whose telephone number is 571 272 1471. The examiner can normally be reached on M-F 8:30-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571 272 1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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March 11, 2004